

# EPIC

Environmental Photographic Interpretation Center

ORIGINAL

SDMS DocID 2210753



## REMOTE SENSING SERVICES REQUEST FORM

### SITE DATA

Site Name: Elkton Farm

Program (select one):

☒ SF (Superfund)  
RCRA

Site/Spill ID (4 characters): 037Z

EPA ID (12 characters): MDD985407196

CWA

Other (specify): \_\_\_\_\_

Purpose (select one):

Remedial  
Removal  
Enforcement

☒ Other (specify): Site Assessment (Pre-Remedial)

Geographic Data:

Latitude: 39 37 51

Longitude: 75 52 18

State: MD County: Cecil County

Municipality: Elkton (1 mile northwest of the town)

USGS Quad Name: Newark West (MD-DEL-PA) and  
Elkton, MD-DEL Quads

### CUSTOMER INFORMATION

Region: 3

Requester: Lorie Baker

Phone Number: (215) 814-3355

Fax Number: (215) 814-3001

Email Address: baker.lorie@epa.gov

### SITE HISTORY:

Provide (attach or fax) a brief discussion of site history, specific problem at site, what you hope to accomplish through this request. Elaborate on known or suspected aspects of site operation (e.g., barrels believed dumped between 1967 and 1972 adjacent to north lagoon). Please provide background information about the site such as site descriptions, action memos, etc. Wherever possible, please provide bibliographic references for any documents to which you refer.

**IMPORTANT: PLEASE FAX A COMPLETED PACKAGE (THIS FORM, BACKGROUND INFORMATION AND MAP SHOWING THE SITE AND/OR STUDY AREA BOUNDARIES) TO: JOAN BOZIK AT 703-648-4290 (REGIONS 1-6 and 8); PHIL ARBERG AT 702-798-2692 (REGIONS 7, 9, and 10).**

**Site Description/History:** During WWII, the site was use to provide a safe area for the disposal of waste materials from Triumph Explosives. The area of interest is a "Fire Hole" which was used to burn and dispose of waste chemicals. At the end of the war the pit was covered over. (SSR, April 2001, attached) EPA requested EPIC to conduct a study of historical photos for this site in December 2000 covering the period from late 1943 through 1945. EPA is requesting a broader search for photos as follows: One set of infrareds winter/ summer from as recently as possible and one set of IRs from as close to 1945 as possible. Black and white photos - anything for the period 1943 through 1947. Also, one color or B&W photo from as recently as possible.

## STANDARD REQUEST OPTIONS

### PRODUCTS AND SERVICES

#### A. Current Photographs (new overflight)

Scale: \_\_\_\_\_ (e.g., 1:24,000)

Film Type: Color Black & White Color IR

Special Conditions (e.g., do not fly if snow cover;

leaf-out; leaf-off, etc.) \_\_\_\_\_

#### Prints

**Analysis (single date only; current site conditions)**

#### B. Historical Photographs

Study Period (e.g., 1936-1955): 1943 - 1947 and present

Years to Focus On (specify): See description on previous page

#### X Prints

**Analysis (site characterization, chronology, and change analysis)**

### DELIVERABLES

Interim Report Required Prior to Delivery of Final Report (unbound format, hand-drafted overlays with typed narrative text)

Standard Photo Analysis Report (contains aerial photo analysis overlays and supporting narrative text; report size is 12"x11" and contains 9"x9" photo prints).

Enlarged Photo Analysis Report (same analysis, but contains enlarged aerial analysis overlays and supporting narrative text; report size is normally 20"x24" and contains 16"x16" aerial photo enlargement prints).

Number of Print Copies: 2 copies

Photo Print Size: ☒ 9"x9" ☐ 16"x16"

Stereo Pairs Needed? Yes ☒ No

Number of Report Copies: \_\_\_\_\_

Desired Delivery Date: 11/30/01

## SPECIAL REQUEST OPTIONS

The following remote sensing products and services are also available for sites with conditions which warrant their use. Check off items of interest and contact your Remote Sensing Coordinator or EPIC WAM for more information.

**Site Discovery/Inventory Process** (regional search using high altitude aerial photos to discover potential waste disposal sites).

**Land Use/Cover Analysis** (within specified distance from site).

**Fracture Trace Analysis** (maps lineaments at the ground surface which are suggestive of fracture zones in underlying bedrock).

**Wetland Mapping/Assessment** (for mapping wetland/upland boundaries; vegetation composition, etc.)

**Multispectral Scanner Overflight** (to acquire digital multispectral data of a site or area).

**Thermal Infrared Scanner Overflight** (to detect and map features such as outfalls, springs, underground fires, etc.).

**Photogrammetric Mensuration** (measurements on aerial photographs, e.g., barrel/drum counts, lagoon dimensions, volumes of deposited materials, size/depth of excavations).

**Satellite Data** (e.g., digital or hard copy remote sensing data from Landsat, SPOT, or other sensor systems).

**GIS Products** (e.g. analysis and/or display of your data in a Geographic Information System).

**Mapping Products** (topographic or other maps).

**Scanned Aerial Photos on CD-ROM**

## EMERGENCY RESPONSE REQUESTS

**Aerial Overflight Support** (need an immediate overflight to document site conditions resulting from an emergency situation).

**Photo Analysis** (need a photo analysis of historical and/or current aerial photos to support an on-going emergency response effort).

**Attach a brief write-up about your Emergency Response needs.**

August 20, 2001

Ms. Lorie Baker  
Site Assessment Manager  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

Dear Ms. Baker:

Per your July 20, 2001 request, the following paragraph describes the site history and goal of Maryland Department of the Environment's (MDE) investigation into historic disposal of wastes on the Elkton Farm Property.

Triumph Explosives, Inc. operated an ordinance manufacturing plant in Elkton, Cecil County, Maryland. During World War II the plant manufactured 40mm explosive shells for and under the control of the Department of the Navy. Information obtained from the U.S. Army Corps of Engineers indicates that there was a disposal pit on the Elkton Farm Property that was used between 1943 and 1945 for disposal of explosives waste, off spec explosive materials, and chemicals used in explosive and ordinance manufacture.

Workers at the facility knew this disposal area as the Firehole. Waste was spread in the pit in thin layers and allowed to burn until all waste was reduced. Plant personnel watched this Firehole from a blockhouse near the pit. We have photographs of the pit being used but do not have an exact location of the pit. Sources all place the Firehole on Elkton Farm off Zeitler Road, which narrows us down to a roughly 200-acre area. We hope to use the aerial imagery to focus our investigation on a more limited target for an Electro Magnetic survey to be used to identify the exact location and extent of the Firehole. Since there is a likelihood for ordinance to be buried in this pit we want to do everything in our control to avoid intrusive sampling of the Firehole and focus on its perimeter.

Thank you for your assistance in obtaining this data. If you have any questions please feel free to contact me at (410) 631-3449 or at [acox@mde.state.me.us](mailto:acox@mde.state.me.us).

Sincerely,

Alex M. Cox  
*Project Manager*  
Environmental Restoration &  
Redevelopment Program